

2
RUSSIAN

SPRS
63242
60 p8
CSO: 8344/0453

Equivalent Finite Revolutions and the Problem of the
Errors of an Autonomous Determination of Coordinates
by OF Boychuk.

Kiev, Prikladnaya mekhanika, No. 2, 1974, pp 94-100

Please Publish

4

RUSSIAN

CSO: 8344/0453
11 September 1974

Problem of Minimizing the Absolute Value of the Central Moment of Elastic Imbalance of a Gyroscope
by L.N. Blokhin.

Kiev, Prikladnaya mekhanika, No. 4, 1974, pp 107-112

Please publish

Generalov, N. A.

On the inversion population of CO₂ molecules in expanding gas flows. 21pp

PRIKLADNAYA MEKHANIKA I TEKHNICHESKAYA FIZIKA, No 5,
1971, pp 24-34

NAV/NISC-trans-3456-73

Nemochinov, I. V.

*Screening of a surface vaporized by the effects of laser
emission in temperature and ionization non-equilibrium.*

25 pp

PRIKLADNAYA MEKhanIKA I TEKHNIChESKAYA FIZIKA, No 6,

1971, pp 35-45

NAV/NISC-trans-3456-73

Kanayev, I. P.

A quasi-stationary CO₂ laser with "Pulsed" stimulation.

5 pp

PRIKLADNAYA MEKhanika I TEKHNIChESKAYA FIZIKA, No 5,

1971, pp 171-173

NAV/NISC-trans-3456-73

Investigation of the Inversion Medium of a
Quasistationary
PRIKL MEKH I TEKH FIZ No 1, 1973, pp 23-29.
CIA-X-7754

May 73

Gembarzhevskiy, G.V.

Experimental Investigations of the Light Amplification Factor in $\text{CO}_2 + \text{N}_2 + \text{He}(\text{H}_2\text{O})$ Mixtures During Expansion In a Supersonic Nozzle.

PRIKLADNAYA MEKHANIKA I TEKHNICHESKAYA FIZIKA

No.4, 1973, pp.18-24.

NAV/NISC TRANS 3544

NAV/NISC/TRANS - 3544-74

Biryukov, A.S.

The Role of Non-Resonance Exchange Processes
in Gas-Dynamic Lasers. 134P
PRIKLADNAYA MEKHANIKA I TEKHNIЧЕСKAYA FIZIKA,
No. 4, 1973, pp. 25-32.
NAV/NISC TRANS 3543-74

KUDRYAVTSEV, YE. N.

//PRIKLADNAYA MEKHANIKA I TEKHNICHESKAYA FIZIKA//

--/--/1973, V---, N0006,

Formation of an inversion in the stream of a
 $\text{CO}_2\text{-H}_2\text{O-N}_2$ gas mixture expanding through a slit

pp 26-31, NISC tr 3581

COPYRIGHT MATERIAL ##

YEVYUKHIN, N. V.

//PRIKLADNAYA MEKHANIKA I TEKHNIЧЕСКАЯ ФИЗИКА//
--/--/1973, V----, N0000,

Investigation of the vibrational deactivation of
carbon dioxide gas molecules upon cooling of the
flow in a supersonic nozzle

pp 32-40, *NESC Tr 3584

COPYRIGHT INFORMATION##

POLYUDOV. V. V.
//PRIKLADNAYA MEKhanika I TEKHNIChESKAYA
FIZIKA//
--/--/1978, V----, N0006
Motion of a conductive piston in a channel with
variable inductance
pp 41-46 NISC 3586##

BUTREEV, V. I.

//PRIKLADNAYA MEKANIKA I TEKHNIЧЕСКАЯ ФИЗИКА//

--/--/1974, V----, N0001,

Turbulent Energy Balance in Axisymmetric Wakes
Behind Differently Shaped Bodies,

pp 165-168, APL/JTU 2-295568

6 pages

Radchenko, G. D.

Application of Muller's Method to Photoelasticity,

PRIKLADNAYA MEKANIKA, OTDELENIYE MATEMATIKI,
MEKANIKA KIBERNETIKI AN UKRSSR, Vol 7, No 3, 1971,

FSTC-HP-23-1291-72

Aug 73

Radchenko, G. D.

Application of Muller's Method to Photoelasticity 7 pp

PRIKLADNAYA MEKhanika, OIDELENIYE MATEMATIKI, MEKhanIKI
KIBERNETIKI AN UkrSSR, Vol. 7, No. 3, 1971

FSTC-HT-23-1291-72

ELYASBERG. P. YE.
//PRIKLADNYYE ZADACHI KOSMICHESKOY BALLISTIKI//
--/--/1973, V----, n----
applied problems of space ballistics 205 pp
pp 143 NASA TT F 15412##

A Study of the Local Population of Red Clover (*Trifolium Pratense* L), by Obrad Krstic, 10 pp.

PRILOG PROUCAVANJU DOMACIH POPULACIJA CRVENE DETELINE

(TRIFOLIUM PRATENSE L.), Reprinted From Zbornik
Naučnih Radova, Vol I and II, 1968.

NTIS TT 72-56056

GUREYEV, A. A.

//PRIMENENIYE AVTOMOBIL'NYKH BENZINOV//

--/--/1970, V-----, N-----, PP 0002-0364

Use of Automotive Gasolines, 452 pp

ARM/PSTC/HT-23-1525-73

##

UNKNOWN

//PRIMENENIYE KONSTRUKTSIONNYKH PLASTMASS
V PROIZVODSTVE LETATEL'NYKH APPARATOV//

--/--/1971,V----,N----, 0001-0063

also Table of Contents,

Construction Plastics in Aircraft and

Missile Production, 69 pp

ARM/FSTC/HT-23-57-74

#

Branets, B. N.

*Application of quaternions in the orientation of a
solid body*

PRIMENENIYE KVATERNIONOV V ZADACHAKH ORIENTATSII TVERDOGO

TELA, Moscow, Nauka Press, 1973, pp. 320

*NASA TT F-15, 414

REQ. TR CHECK

6-06-73

T824

APPLICATION OF THE METHODS OF THE THEORY
OF PROBABILITY AND THE THEORY OF RELIABILITY
TO ANALYSIS OF STRUCTURES

BOLOTIN, V V

UR: PRIMENENIYE METODOV TEORII VEROYAT-
NOSTEY I TEORII NADEZHNOСТИ V RASCHETAKH
SOORUZHENIY, 1971, 255 pages

Process in as
MT 73-23-0771

Bocharova, L.P.

Dynamics of Residues of Sevin, Phthalophos, and
Phosalone in Cabbage Leaves 6 pp

PRIMEN PESTITS, SEL KHOZ. MATER. NAUCHI Konf 1969
Pub 1970, pp 113-118

FSTC-HT-23-2092-72
ACSI-K-2676

DISTRIBUTION LIMITED TO US GOVT AGENCIES

The Use of Radioactive Isotopes in Marine Engineering,
by V. V. Lakhanin, 26 pp.
PRIMENENIYE RADIOAKTIVNYKH IZOTOPOV V SUDOVOM
MASHINOSTROYENIY, 1970, pp 115-121, 126-143.
NAVY/NISC-3435

June 73

Paka, V.T.

Investigation of the temperature field of the upper layers of the ocean by continuous recording of temperature with the ship underway.

Primenenie Radiofizicheskikh Metodov v Okeanograficheskikh i Ledovykh Issledovaniyakh,

pp.50-57, Leningrad, 1965.

APL T-2777

ON SOME APPROXIMATE METHODS OF INVESTIGATION
OF NONLINEAR OSCILLATIONS OF LIQUID

LUKOVSKIY, I.

LANGUAGE-RU COUNTRY-UR

PRIMEN. TEORII Neliney. koleb. v mekh. VOL. 3
1970 PP430-9

FSTC-HT-23-1647-73

A STUDY OF ONE-FREQUENCY OSCILLATIONS IN MECH
ANICAL SYSTEMS DESCRIBED BY ONE-DI

MITROPOLISKIY, LANGUAGE-RU COUNTRY-UR

PRIMEN. TEORII NELINEY. KOLEB. V MEKHAN. VOL
3 1970 PP 478-92

FSTC-HT-23-1645-73

Semin, G.K., et al
Chemical Applications of Nuclear Quadrupole Resonance
PRIMENENIE YADERNOGO KVADRUPOLE'NOGO
REZONANSA V KHIMII Khimiya, 1973
A2
*IPST 13 Feb 1973

July 1973

UNKNOWN

//PRINCIPES TECH. APPLI. DES PILES A COMBUSTIBLES//

--/--/CTC;I-1111;H-1111,

Principal Technological Applications of Fuel Cells,

2 pp.

pp 510-112, EENC-III-23-1361-73

DISTRIBUTION LIMITED TO US GOVT AGENCIES

Zayeva, G.N.

Rapid Methods for Establishing Maximum
Permissible Concentrations 14 pp

PRINTSIPY I METODY USTANOVLENIYA PREDEL'NO
DOPUSTIMYKH KONSENTRATSIY VREDNYKH VESHICHESTV
V VOZDUKHE PROIZVODSTVENNYKH POMESHCHENIY
1970 pp 24-34

FSTC-HT-23-2553-72

Pasa, I.N.

1950

An unusual instance of a biological relation between fish
and crabs (*Zamechaniye k biologicheskoi svyazi
ryby i kraba*)

Priroda, 35(7): 60-9. In Russian.

Transl. by Paul J. Macy for BCF, Biol. Lab., Seattle, Wash.,
Oct. 1963, as Transl. Series No. 41, 9p., typescript.

Avail. on loan - BCF, Wash., D.C.

MR

Fisler, O.F. 1957
The behavior of fish in the action zone of an echo-sounder
(Povedenie ryb v zone deistviya ekholota)
Priroda, (4): 114-116. In Russian.

Summarized transl. by Richard C. De Armond for Pacific
Salmon Invest., BOP, Seattle, Wash., June 1961, 2p., typescript.

Avail. on loan - BOP, Wash., D.C.

Original Article Checked *K*

ZABOTINSKIY, M. YE.
//PRIRODA//
--/--/1961,V----,N0004,
The time scale on which we live,
pp 9-16,NTC 74-11609-03B##

SAUKOV, A. A.

//PRIRODA//

--/--/1965, V----, N0001,

The future through the eyes of a geochemist

pp 12-24, NTC 74-11647-08D##

Romashov, A. N.

Investigations and results 13 pp

PRIRODA, nr. 2, Feb. 1967, pp. 46-52

AIR/FTD-MT-23-324-74

Romashov, A. N.

Directed explosions -Experience at Medeo. 22 pp.

PRIRODA, No 3, 1968, pp 61-67

AIR/FTD-MT-24-326-74

Pokrovskii, G. I.

An Explosion Creates a Dam

PRIRODA. Moscow, n. 10, 1968, pp. 74-77

NTC 73-12492-19D

Sugonyayev, Ye.S.

Biological Barrier Against Pests

6 pp

PRIRODA, No 11, 1969, pp 55-57

FSTC-HT-23-935-70

4-Dec-74

Uncl (AD--781668) Problems of high-current
relativistic electron beams. BOGDANKEVICH, L.S.;
RUKHADZE, A.A. Translated by V. Mesenzeff from Priroda;
No. 2, 46-45(Feb 1973). 17p. (FID-HT--23-1335-74).
NTIS \$3.00.

NSA

LIDORENKO, N. C.
//PRIRODA//
--/09/1974.V----,N0009, pp 0009-0017
Progress and Prospects in New Energy Sources
Discussed. 13 pp
JPRS 63639
#

Vinogradov, A.P.

Preliminary results of lunar soil study,
PRIRODA, MOSCOW, 1970, pp.5-9, n.12.

NTC 73-12396-03B

NTIS N72-21861

Lavrukhina, A.K.

Meteorites are interplanetary space probes.

PRIRODA. MOSCOW, 1970, pp 10-16, n. 12.

NTC 73-12397-03B

NTIS N72-21861

Fedorov, A.S.

K. E. Tsiolkovskiy as Film Consultant.
PRIRODA, ACADEMY OF SCIENCE OF THE USSR, No. 5,
1970, pp 117-120
*NASA TT F 14,890

may 73

Ivanov, A.V.

Lunar soil in mare imbrum

PRIRODA. MOSCOW, 1971, pp 11-12, n. 11.

NTC 73-12399-03B

NTIS N72-21865

Miroshnichenko, L.I.

Particle acceleration in solar flares,
PRIRODA (MOSCOW), 1971, pp.37-41, n.7.

NTC 73-12383-03B

NTIS N72-20786

SHEVCHENKO, V. V.

Physical Selenography

PRIRODA. MOSCOW, no. 1, pp. 37-45, 1971

NTC 73-10286-03B

March 73

Trubnikov, B. A.¹

Space dust adhesion.

PRIRODA, MOSCOW, n. 8, p. 76-77, 1971

NTC 73-10988-03B

Khalatnikov, Issac

Problem of Metallic Hydrogen

8 pp

PRIRODA, No 10, 1971, pp 8-11

FSTC-HT-23-2494-72

KOKURIN, YU. L.

Lidaring The Moom.

PRIRODA. MOSCOW, no. 10, pp. 42-46, 1971

NTC 73-10282-03A

March 73

Bel'kovich, V.M.

"New Facts About Dolphin's Hydrolocation,"
PRIRODA, No. 11, Nov. 1971.
NOO TRANS 592

Gurshtein, A. A.

The Luna 17 Automatic Station on Mare Imbrium
PRIRODA. MOSCOW, n. 11, 1971, pp. 2-4

NTC 73-12580-03B

NTIS N72-21866

Pronin, A. A.

Morphology of small Craters in the Lunar Maria

PERIODA: MOSCOW, n. 11, 1971, pp. 4-5

NTC -73-13179-03B

NTIS N72-21867

Pronin, A. A.

Statistics on small Craters from Lunokhod 1 Data

PRIRODA. MOSCOW, n. 11, 1971, pp. 6-7

NTC 73-12581-03B

NTIS N72-21868

Zezin, R. B.

Morphology of Lunar Rocks in the Region transversed by
Lunokhod 1

PRIRODA. Moscow, n. 11, 1971, pp. 7-9

NTC 73-13185-03B

NTIS N72-28825

Zezin, R. B.

Statistical Analysis of Rock Distribution from
Lunokhod 1 Data

PRIRODA. MOSCOW, n. 11, 1971, pp. 9-11

NTC 73-12582-03B

NTIS 1772-21869

Bazilevskii, A. T.

Exogenetic Processes on the Surface of Lunar Maria

PRIRODA. MOSCOW, n. 11, 1971, pp. 13-15

NTC 73-12594-03B

NTIS N72-24859

Levin, B. Y.

Lunar Development in the Light of Modern Data

PRIRODA. Moscow, n. 12, 1971, pp. 2-9

NTC 73-13181-03B

NTIS N72-22866

VORONTSOV, N. N.

Wild Sheep's Chromosomes and the Origin
of Domestic Sheep.
PRIRODA, MOSCOW, vol. 3, pp. 74-82, 1972
NRC C-11839

March 73

Dukhovskoi, Yu. A.

The TOR-1 Apparatus for Investigating Lunar Ground
PRIRODA. MOSCOW, n. 1, 1972, pp. 83-86

NTC 73-12585

NTIS N72-22863

Koval, I. K.

The Martian Crest

PRIRODA. MOSCOW, n. 4, 1972, pp. 2-9

NTC 73-21558-03B

NTIS N72-32817

Deep Structure of the Earth's Crust in the USSR, by
N. A. Belyayevskiy, 31 pp.
PRIRODA, No 4, 1972, pp 32-43.
DMAAC-TC-1896

May 73

Kurt, V. G.

Prospects of Extraatmospheric Astronomical Research

PRIRODA, NO. 5, May 1972, pp. 13-19

NASA TT F-15,119

Bisnovatyy-Kogan, G. S.

Why Supernovae Flare Up

PRIRODA. Moscow, n. 6, 1972, pp. 24-33

NFC 73-21749-03A

NTIS N72-33834

14-Feb-74

Uncl (JPRS-60880) Nanosecond electron accelerator.
Mesyats, G.A.; Bugaev, S.P. Translated from Priroda;
No. 6, 78-84(1972). 12p. NTIS.

particle accelerators; translations 206

MN-28 NP NSA

A. D. Ursul

The trend of space progress.
PRIRODA, No 7, 1972, pp 8-14
NTC 73-10594-05D

may 73

Kalgenov, M. I.

Space Iron on Earth?

ERRODA, NO. 7, July 1972, pp. 64-67

NASA TT F-15,121

Vinogradov, A. P.

Preliminary Data on Lunar Ground brought by the "Luna-
2077 Automatic Space Probe"

PRIRODA, NO. 8, August 1972, pp 2-10

NASA TT F-15,100

Kozlov, V. V.

The global tecthonics of the moon and
the earth 19 p

PRIRODA 1972, oct.

no. 10 p 21 - '28

NASA TT F 14947

Grigoren, N. L.

The "Interkosmos" satellites study cosmic rays.
PRIRODA. MOSCOW, No 10, 1972, pp 29-36

NTC 73-13901-20H

CIA-X-7772

Zuyev, V. Ye.

Laser sounding of the atmosphere 19p

PRIRODA 1972, Oct,

no. 10 p 86-93

NASA TT F 14948

NAV/NISC-3483/73

Role of USSR Scientific Centers in Economic
Development Outlined, by V. I. Duzhenkov, 13 pp.
RUSSIAN, per, Priroda, Moscow, No 11, 1972,
pp 2-7.
JPRS 58683

Apr 73

N. A. Borisevich

Infrared dispersion filters. 16 pp.

PRIRODA No 11, Nov. 1972, pp 8-14.

NASA TT F 14838

Eynasto, Ya. E.

The andromeda galaxy, 26 pp.

PRIRODA, No. 11, 1972, pp 70-80.

NASA TT F 14839

"New Facts on Mars' Geology", by
P.N. Kropotkin.
PRIRODA, No 11, Nov 1972, pp 88-89
NASA TT F-14,840

Apr 73

Iu. Iu. Marti

How the biological Resources of the Caspian
Sea can be Multiplied.

Priroda, No. 12, 1972, pp. 28-39.

*NTIS-TT-73-50006

Apr 73

BOGDANKEVICH, .L. S.
//FRIRODA, //
--/02/1973, V0---, N0002,
Problems of high-current relativistic electron
beams, 12 pp
pp 46-49, AIR/FTD/HT-23-1335-74@@

KRYLOV, O. V.
//PRIRODA, (MOSCOW),//
--/09/1973,V----,N0010,
Catalysis and life-support systems in outer space, 23 pp
pp 2-9 NASA TT F 15399@@

Artificial Intelligence, by I. B. Gutchin, 10 pp.
RUSSIAN, per, Priroda, Moscow, No 2, 1973, pp 72-76.
JPRS 58780

Apr 73

Gurshteyn, A. A.

Information on Foreign Scientific Literature to Scientists
PRIRODA, No. 2, February 1973, pp. 116-117
MIASA TT F-15,099

Favorskaya, Marina Alekseyevna

On the approaches of global metallogeny. 22 pp.

PRIRODA, No 3, Mar 1973, pp 2-9

NASA TT F 15098

Kuznetsov, B. G.

The Style of Science, Its Synthesis, and Problems
in the Planning of Scientific Progress.
14 pp

PRIRODA, Moscow, No 4, 1973, pp 38-43.

JPRS 60426

Oksengendler, G. I.

Antidotes and Their Mechanisms of Action in
the Organism.

15 pp

PRIRODA, Moscow, No 4, 1973, pp 50-59.

JPRS 62171

Dmitriyev, M. T.

New Problems of Ball Lightning
PRIRODA, no. 4, 1973, pp. 60-67
NASA TT F-15,097

IN PROCESS AS
MT 74-24-0540

Meyerson, F. Z.

Molecular mechanism of adaptation to hypoxia.

PRIRODA, No 6, 1973, pp 74-81

NASA TT F-15,058

Pokrovskiy, G. I.

Two possible objects in the search for highly-developed civilizations.

PRIRODA, No. 6, 1973, pp 97-98

✓NASA TT F-15,059

Kudrin, V. B.

Gravitational waves - a means of communication with
highly-developed civilizations.

PRIRODA, No 6, 1973, pp 98-99

NASA TT F-15,060

Yes'kov, Ye. K.

Distress and Alarm Signals of Ants Studied.

5 pp

PRIRODA, Moscow, No 6, 1973, pp 102-104.

JPRS 60251

Vysotskiy, B. P.

Spontaneous Modelling of Natural Processes.
12 pp

PRIRODA, Moscow, No 7, 1973, pp 54-60.
JPRS 59950

Vasily'yev, G. M.

New Facts about Tungusian Meteorite's Matter
PRIRODA, No. 7, July 1973, pp. 99-101

NHSR TT-F-15,125

Yavnel, A. A.

Where and When did the Borodino Meteorite Fall?

PRIRODA, NO. 7, July 1973, pp. 102-103

NASA TT F-15,126

MIKHAYLOV, A.YE.

//PRIRODA//

--/08/1973, V----, N0008,

Outer space and crustal movements,

pp 20-29, *NASA TT F 15954##

Yesenov, Sh. Ye.

The Project for Kazakhstan's Underground 'River'.
14 pp

PRIRODA, Moscow, No 8, 1973, pp 58-64.

JPRS 60619

Pidoplichko, Ivan Grigor'yevich

The Purpose of Scientific Collections and
Museums.

10 pp

PRIRODA, Moscow, No 9, 1973, pp 10-17.

JPRS 61437

Braginskiy, S. I.

The Earth's Hydromagnetic Dynamo
PRIRODA, no. 9, Sept. 73, pp. 32-41
NASA TT F-15,211

Krylov, O. V. et al

Catalysis and life-support systems in outer space

PRIRODA, no. 10, Oct. 1973, pp. 2-9

*NASA TT F-15,399

Miroshnichenko, L. I.

Radiation danger in outer space

PRIRODA, no. 10, Oct. 1973, pp. 10-13

*NASA TT F-15,400

Gurshteyn, A. A.

Lunokhod-2 on the lunar continent 27 pp.

PRIRODA, no. 10, Oct. 1973, pp. 14-27,

NASA TT F-15,401

17-26

MIROSHNICHENKO L.I.
//PRIRODA (MOSCOW),//
10/09/1973,V---,N0010,
Radiation hazard in space, 22 pp
pp 10-16 NASA TT F 15400@@

BRAGINSKY, S. I.

//PRIOR/A//

--/09/1973, V0009, N----

The earth's hydromagnetic dynamo 29 pp

pp 32-41 NASA TT F 15211##

Khrgian, A. Kh.

The Earth's Ozone Shield.

11 pp

PRIRODA, Moscow, No 11, Nov 1973, pp 22-27.

JPRS 61377

Zonov, Yu. V.

Artificial earth satellites investigate the environment

PRIRODA, no. 12, 1973 December, pp. 2-9

NASA TT F-15409